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PTO-1449
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INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(Use several sheets if necessary)

Sheet 1 of 2

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Docket No.: D2939-CIPCONDIV4		Application No.: 10/729,039		
		Applicant: Williams				
		Filing Date: December 5, 2003		Group Art Unit: 1645		
U. S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BSJ	5310663	05-1994	Dobeli et al.			
	5565334	10-1996	Kufe et al.			
	5874415	02-1999	Kufe et al.			
	5919665	07-1999	Williams			
	5955368	09-1999	Johnson et al.			
	6022950	02-2000	Murphy			
	2003/0185850	10-2003	Dertzbaugh			07-2001
	2003/0049264	03-2003	Foster et al.			05-2002
FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES
BSJ	0209281	01-1987	EP			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
BSJ	AA	Ford et al., (1991) Protein Expression & Purification, 2:95-107				
	AB	Kimura et al., (1991) Applied & Enviro Microbio, 57(4):1168-72				
	AC	TaKaRa Shuzo Co. Catalog of TAKARA BIO INC at the web site: bio.takara.co.jp				
	AD	Nassau et al., (1996) J. Bacterio, 178(4):1047-52				
	AE	Hill et al., (1996) Arch. Biochem. and Biophys. 336(2):283-9.				
	AF	Crowe et al., (1994) Methods in Molecular Biology, 31:371-387.				
	AG	Fuji et al. (1988) Appl. Environ Microbiol, 54(1):69-73.				
	AH	Kurazono., (1992) Journal of Biological Chemistry, 267(21):14721-14729.				
	AI	Mochida (1990) PNAS (USA), 87:7844-8.				
	AJ	Young (1989) FEMS Microbiology Reviews, 63:301-25.				
EXAMINER BSJ		DATE CONSIDERED 5/12/08				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
✓	AK	Syuto (1981) Journal of Biological Chemistry, 256(8):3712-17.				
	AL	Aktories et al., (1987), Biochem J 247(2):363-68 (abstract only)				
	AM	Ledoux et al., (1994), Toxicology, 32(9):1095-1103.				
	AN	Valderrama et al., (2000), PNAS, 97(4):1560-65.				
	AO	Poulain et al., (1989), J. Biol. Chem. 264(36):21928-33.				
	AP	Sathyamoorthy et al., (1985), J. Biol. Chem. 260(19):10461-10466				
	AQ	Pascchnik et al., (1993) Bioseparation 3:267-283				
	AR	DiBello et al., (1994), European J of Biochem/FEBS(Germany), 219(1-2):161-9				
	AS	Niemann et al. (1991), Behring Inst. Mitt. 89:153-62.				
	AT	U.S. Application No. 08/704,159, filed 8/28/1996, Williams (Docket No. D2939-CIP) <i>N87</i>				
	AU	U.S. Application No. 10/271,012, filed 10/15/2002, Williams (Docket No. D2939-CIPCON) <i>807</i>				
	AV	U.S. Application No. 10/728,696, filed 12/05/2003, Williams (Docket No. D2939-CIPCONDIV01) <i>Patent</i>				
	AW	U.S. Application No. 10/729,122, filed 12/05/2003, Williams (Docket No. D2939-CIPCONDIV02) <i>face</i>				
	AX	U.S. Application No. 10/729,527, filed 12/05/2003, Williams (Docket No. D2939-CIPCONDIV03)				
	AY	U.S. Application No. 11/001,241, filed 11/30/2004, Williams (Docket No. D2939-CIPCONCON)				
✓	AZ	U.S. Application No. 10/354,774, filed 01/30/2003, Williams (Docket No. D2939-CIPCON2) <i>2</i>				
	BA	U.S. Application No. 10/727,898, filed 12/04/2003, Williams (Docket No. D2939-CIPCON2DIV) <i>2</i>				
	BB					
EXAMINER <i>J. B. Williams</i>		DATE CONSIDERED <i>5/12/05</i>				
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VBD	4,664,911	05/1987	Uhr et al.			
	5,071,759	12/1991	Rothman et al.			
	5,196,193	03/1993	Carroll			
	5,268,295	12/1993	Serroro			
	5,410,019	04/1995	Coy et al.			
	5,837,264	11/1998	Becker et al.			
	5,891,842	04/1999	Kream			
	5,939,070	08/1999	Johnson et al.			
	5,989,545	11/1999	Foster et al.			
	6,022,950	02/2000	Murphy			
	6,051,239	04/2000	Simpson et al.			
	6,545,126	04/2003	Johnson et al.			
V	6,787,517	09/2004	Gil et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES
VBD	93/05800	04/1993	WO			
	94/13264	06/1994	WO			
	94/21684	09-1994	WO			
	95/32738	12/1995	WO			
V	96/05222	02/1996	WO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
VBD	AA	Maisey et al., (1988) Eur. J. Biochem 177:683-691				
	AB	Rudinger, J. in Peptide Hormones, Parsons, J.A. (Ed.) Univ. Park Press, Baltimore, MD pp. 1-7.				
	AC	Roitt, I. Essential Immun., 6 th Edition, Blackwell Scientific Publications, Boston, MA, pp. 173-178.				
	AD	LeClerc, C. et al. J. Immunol. 144(8): 3174-3182				
	AE	Kleid, D.G. Annals NY Acad. Sci. 413:23-30.				
V	AF	Siegel, L.J. Clin. Microbiol. 26: 2351-2356.				
EXAMINER			DATE CONSIDERED			
						
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Filing Date: December 5, 2003

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
✓	6,214,602	04/2001	Zdanovsky			
	6,395,513	05/2002	Foster et al.			
	6,444,209	09/2002	Johnson et al.			
✓	6,822,076	11/2004	Bilgalke et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
✓	EP 0 282 042	09/1988	Europe				
	EP 0 593 176	04/1994	Europe				
✓	GB 2 272 697	05/1994	Great Britain				

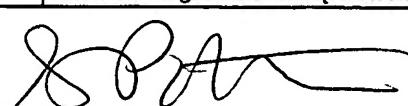
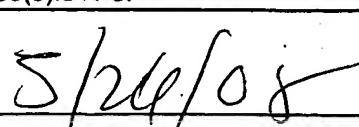
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	AG	Beitle et al.; "One-step purification of a model periplasmic protein from inclusion bodies by its fusion to an effective metal-binding peptide", Biotechnology Progress, Vol. 9, pp 64-69 (1993).
	AH	Kamiya et al., "Production of Monoclonal Antibody to Clostridium Difficile Toxin A Which Neutralizes Enterotoxicity But Not Haemagglutination Activity", FEMS Microbiology Letters, Vol. 81, pages 311-316 (1991)
	AI	Hatheway, "Toxigenic Clostridia", Clin. Microbiology Reviews, Vol. 3, No. 1, pages 66-98 (1990)
	AJ	Coughlin et al., Characterization of six murine monoclonal antibodies specific for toxin B of Clostridium difficile", Hybridoma, Vol. 13, pages 147-152 (1994).
	AK	Hochuli et al., "Generic approach to facilitate purification of recombinant proteins with a novel metal chelate adsorbent", Biotechnology, Vol. 6, pages 1321-1325 (1988).
	AL	Lilius et al., "Metal affinity precipitation of proteins carrying genetically attached polyhistidine affinity tails", Eur. J. Biochem., Vol. 198, pages 499-504 (1991).
	AM	Wiedemann et al., "Chicken egg antibodies for prophylaxis and therapy of infectious intestinal diseases", J. Vet. Med., Vol. 38, pages 283-291 (1991).
	AN	Handl et al., High yield of active STb enterotoxin from a fusion protein (MBP-STb) expressed in E. Coli", Protein Expression and Purification, Vol. 4, pages 275-281 (1993).
	AO	Von Eichel-Streiber et al., "Cloning of Clostridium difficile toxin B gene and demonstration of high N-terminal homology between A and B", Med. Microbiol. Immunol., Vol. 179, pp 271-279 (1990).
✓	AP	Kim et al, Characterization of protective antibodies in hamsters immunized against Clostridium difficile toxins A and B", Microbial Ecology in Health and Disease, Vol. 2, pp 47-59 (1989).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
BB	AQ	Zhou et al., "Expression and Purification of the Light Chain of Botulinum Neurotoxin A: A single mutation abolishes its Cleavage of SNAP-25 and Neurotoxicity after reconstruction with the Heavy Chain", Biochemistry, Vol. 34, No. 46, pages 15175-15181 (1995)				
	AR	Clayton et al, "Protective vaccination With a Recombinant Fragment of Clostridium Botulinum Neurotoxin Serotype A Expressed from a Synthetic Gene in E Coli", Infection and Immunity, Vol. 63, No. 7, pages 2738-2742 (1995).				
	AS	Schiavo et al, "Tetanus and Botulinum-B Neurotoxins Block Neurotransmitter Release by Proteolytic Cleavage of Synaptobrevin", Nature, Vol. 359, pages 832-835 (1992)				
	AT	Kriegstein et al., J. Protein Chem. 1994 Jan; 13(1):49-57.				
	AU	Hutson et al., FEMS Microbiol Lett. 1993 Mar 15; 108(1):103-10.				
	AV	Szabo et al., Appl Environ. Microbiol, 1993, 59(9):3011-3020.				
	AW	Minton et al., "Host: Vector systems for gene cloning in Clostridium", Microbiological Sciences, 5(10):310-315 (1988).				
	AX	Jung et al, "Cloning of a Clostridium botulinum type B toxin gene fragment encoding the N-terminus of the heavy chain", FEMS Microbiol. Lett., 70(1):69-72 (1992).				
	AY	Campbell et al., "Gene Probes for Identification of the Botulinal Neurotoxin Gene and Specific Identification of Neurotoxin Types B, E, and F", Jour. Clin. Microbiology, Vol. 31, No. 9, pages 2255-2262 (1993).				
	AZ	Hauser et al., "Nucleotide sequence of Clostridium botulinum C1 neurotoxin", Nucleic Acids Research, Vol. 18, No. 16, page 4924 (1990).				
	BA	Mierendorf et al, "The pET System: Your choice for Expression", inNovations, Newsletter of Novagen, Inc., Vol. 1, No. 1, pp 1-3, May 1994.				
	BB	Moberg et al., "Affinity Chromatography Purification of Type A Botulinum Neurotoxin from Crystalline Toxin Complex", Applied and Environ. Microbiology, Vol. 35, No. 5, pp 878-880 (1978).				
✓	BC	Kimura K., English abstract: "The structure and function of botulinum type C neurotoxin", Hokkaido Igaku Zasshi [Article in Japanese], 1991 Nov; 66(6):841-8.				
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